## WHAT IS CLAIMED IS:

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A paper-like material conveying apparatus comprising:

 a drive roller which is given with a driving force, rotated and
 driven; and

a driven roller arranged rotatably following the rotation of the drive rollers, the driven roller including a first layer formed with a solid elastic material that is in contact with the drive roller and a second layer formed with a foam elastic material that is formed at the inside from the first layer,

wherein paper-like materials conveyed into the nip between the drive roller and the driven roller are pinched, conveyed and carried out.

- 2. The paper-like material conveying apparatus according to claim 1, wherein thickness of the first layer is below 1/2 of that of the second layer, a coefficient of dynamic friction between the first layer and paper-like materials is more than 0.7 at less than a relative velocity difference 200 mm/s, a compression set of the second layer is below 5%, hardness of the second layer is below 40 at least at either Asker C hardness or JIS K 6253 E type hardness, and thickness of the second layer is more than 1.8 times of the most thick paper-like material.
- 3. The paper-like material conveying apparatus according to claim 2, wherein tear strength of the second layer is above 6 kN/m

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- 4. A paper-like material conveying direction switching apparatus comprising:
- a drive roller which is given with a drive force, rotated and driven in both the forward and reverse directions; and

a driven roller arranged rotatably following the rotation of the drive rollers, the driven roller including a first layer formed with a solid elastic material that is in contact with the drive roller and a second layer formed with a foam elastic material that is formed at the inside from the first layer,

wherein paper-like materials in non-uniform thickness conveyed into the nip between the drive roller and the driven roller are pinched, conveyed and stopped and then, the drive roller is counter-rotated and the paper-like materials are carried out in the reverse direction.

- 5. The paper-like material conveying direction switching apparatus according to claim 4 further comprising:
- a conveying apparatus to convey paper-like materials into the nip, receive paper-like materials carried out from the nip and convey in the counter-direction.
- 6. The paper-like material conveying direction switching
  apparatus according to claim 4, wherein thickness of the first layer
  is below 1/2 of that of the second layer, a coefficient of dynamic

friction between the first layer and paper-like materials is more than 0.7 at less than a relative velocity difference 200 mm/s, a compression set of the second layer is below 5%, hardness of the second layer is below 40 at least at either Asker C hardness or JIS K 6253 E type hardness, and thickness of the second layer is more than 1.8 times of the most thick paper-like material.

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- 7. The paper-like material conveying direction switching apparatus according to claim 6, wherein tear strength of the second layer is above 6 kN/m at JIS K 6252 (ISO 34-1,34-2).
- 8. A paper-like material stamping apparatus comprising:
  a cylindrical stamp having a convex plate on the outer surface,
  which is given with a driving force and rotates;

an ink supply portion to supply ink to the outer surface of the cylindrical stamp; and

a platen roller arranged on the outer surface of the cylindrical stamp in the non-contact state via a prescribed gap, the platen roller including a first layer formed with a solid elastic material and a second layer formed with a foam elastic material that is formed at the inside from the first layer, and the platen roller being given with a driving force and rotated in the same direction as the cylindrical stamp,

wherein a mark is stamped on the surfaces of paper-like materials in non-uniform thickness carried into the gap by contacting and rotating the cylindrical stamp thereon. 9. The paper-like material stamping apparatus according to claim 8, wherein the gap is smaller than the thickness of the thinnest paper-like material.

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10. The paper-like material stamping apparatus according to claim 8, wherein thickness of the first layer is below 1/2 of that of the second layer, a coefficient of dynamic friction between the first layer and paper-like materials is more than 0.7 at less than a relative velocity difference 200 mm/s, a compression set of the second layer is below 5%, hardness of the second layer is below 40 at least at either Asker C hardness or JIS K 6253 E type hardness, and thickness of the second layer is more than 1.8 times of the most thick paper-like material.

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11. The paper-like material stamping apparatus according to claim 8, wherein tear strength of the second layer is more than 6 kN/m at JIS K 6252 (ISO 34-1, 34-2).

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12. A paper-like material conveying apparatus comprising:
plural drive rollers to contact the same surfaces of paper-like
materials taken out on a conveying path and rotate in the conveying
direction at the same peripheral velocity; and

plural driven rollers rigidly arranged in contact with plural drive rollers rotatably following the rotation of the drive rollers, respectively through the conveying path and allow to accept paper-like materials conveyed into nips between the driven rollers and the opposed drive rollers by elastically deforming and rotate independently each other.

13. The paper-like material conveying apparatus according to claim 12 further comprising:

a frame to which rotational shafts of the plural drive rollers and rotational shafts of the plural driven rollers are attached rigidly.

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- 14. The paper-like material conveying apparatus according to claim 13, wherein the plural driven rollers have rotational shafts fixed to the frame rotatably independently to the rotational shafts.
- 15. The paper-like material conveying apparatus according to claim 14, wherein the plural driven rollers are attached coaxially apart in the direction of the rotational shaft.
- 16. The paper-like material conveying apparatus according to claim 13, wherein the plural drive rollers are attached coaxially apart in the direction of the rotational shaft.
  - 17. The paper-like material conveying apparatus according to claim 12, wherein the plural driven rollers are in the dual layers structure including a first layer formed with a solid elastic material and a second layer formed with a foam elastic material that is

formed at the inside from the first layer.

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18. A paper-like material conveying direction switching apparatus comprising:

plural drive rollers which contact the same surfaces of paper-like materials taken out on a conveying path and rotate in the same direction at the same peripheral velocity; and

plural drive rollers which are arranged rigidly to contact the plural drive rollers through the conveying path, rotatably following the rotation of the drive rollers, allow to accept paper-like materials to the nips between the driven rollers and the opposed drive rollers by elastically deforming and rotate each other independently,

wherein paper-like materials conveyed into the plural nips are conveyed while pinched and stopped and then, the plural drive rollers are counter-rotated and the paper-like materials are carried out in the reverse direction.

- 19. The paper-like material conveying direction switching apparatus according to claim 18 further comprising:
- a frame to which rotational shafts of the plural drive rollers and rotational shafts of the plural driven rollers are attached rigidly.
- 20. The paper-like material conveying direction switching
  apparatus according to claim 19, wherein the plural driven rollers
  have rotational shafts fixed to the frame rotatably independently to

the rotational shafts.

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- 21. The paper-like material conveying direction switching apparatus according to claim 20, wherein the plural driven rollers are attached coaxially apart in the direction of the rotational shaft.
- 22. The paper-like material conveying direction switching apparatus according to claim 19, wherein the plural drive rollers are attached coaxially apart in the direction of the rotational shaft.
- 23. The paper-like material conveying direction switching apparatus according to claim 18, wherein the plural driven rollers are in the dual layers structure including a first layer formed with a solid elastic material and a second layer formed with a foam elastic material that is formed at the inside from the first layer.